/		- ·	
Notice of Allowability	Application No.	n No. Applicant(s)	
	09/707,604	HWU ET AL.	
	Examiner	Art Unit	
	Aaron C Perez-Daple	2154	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>Amendment filed 9/24/04</u> .			
2. The allowed claim(s) is/are <u>23-27 and 34-43</u> .			
3. The drawings filed on 12 January 2004 are accepted by the Examiner.			
 Acknowledgment is made of a claim for foreign priority una) ☐ All _ b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No cuments have been received in this	s national stage applicat	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the rec	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	on's Patent Drawing Review (PTO Amendment / Comment or in the (84(c)) should be written on the draw	Office action of	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	\	5. ☐ Notice of Informal Patent Application (PTO-152)6. ☐ Interview Summary (PTO-413),	
Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paper No /Mail Da	Paper No./Mail Date 7. ⊠ Examiner's Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Statem	ent of Reasons for Allo	wance
of Biological Material JOHN FOLLANSBEE JOHN FOLLANSBEE JOHN FOLLANSBEE JOHN FOLLANSBEE	9. Other		

h

Application/Control Number: 09/707,604 Page 2

Art Unit: 2154

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Richard Himelhoch (Reg. 35,544) on 2/1/05.
- 3. The application has been amended as follows:

In the Claims:

I. Claim 23 (currently amended):

A control system comprising:

a host processor;

a first controller communicatively coupled to the host processor, the first controller being associated with a first network identifier, the first controller including a first central processing unit module connected to a second module via a first backplane;

a second controller communicatively coupled to the host processor, the second controller being associated with a second network identifier, the second controller including a third central processing unit module connected to a fourth module via a second backplane; and a fiber optic cable connecting the first module of the first controller and the third module of the second controller;

wherein the first controller is programmed to transfer the first network identifier to the second controller via the fiber optic cable and not via either one of the first backplane and the

Application/Control Number: 09/707,604

Art Unit: 2154

second backplane, the transfer being in response to detecting an error associated with the first

Page 3

controller.

II. Claim 34 (currently amended):

A control system comprising:

a host processor;

a first controller communicatively coupled to the host processor, the first controller being

associated with a first network identifier, the first controller being connected to a first

backplane and including a first computer processing unit module;

a second controller communicatively coupled to the host processor, the second controller

being associated with a second network identifier, the second controller being connected to a

second backplane and including a first computer processing unit module; and

a fiber optic cable connecting the first computer processing unit module of the first

controller and the first computer processing unit module of the second controller;

wherein the first controller is programmed to transfer the first network identifier to the

second controller via the fiber optic cable and not via either one of the first backplane and the

second backplane, the transfer being in response to detecting an error associated with the first

controller.

III. Claim 35 (currently amended):

A control system as defined in claim 34, wherein the first computer processing unit

module of the first controller comprises:

a processor;

a co-processor;

Art Unit: 2154

an operating system executed by the processor; and

a co-operating system executed by the co-processor wherein the operating system and the co-operating system cooperate to transfer data between the first controller and the second controller.

IV. Claim 39 (currently amended):

An active standby control system comprising:

a host processor unit;

a first controller communicatively coupled to the host processor unit, the first controller including a first module having a processor and a transfer port, and <u>a</u> second module connected to the first module by a backplane, the first controller further communicatively coupled to a plurality of remote <u>Input-Output (IO)</u> HO drops;

a second controller communicatively coupled to the host processor unit, the second controller including a first module having a processor and a transfer port, and a second module connected to the first module by a backplane, the second controller further communicatively coupled to the plurality of remote IO drops; and

a cable connected to the transfer port of the first module of the first controller and connected to the transfer port of the first module of the second controller for transferring data between the first module of the first controller and the first module of the second controller and not via either one of the backplane of the first controller and the backplane of the second controller, the transfer being in response to detecting an error associated with the first controller and for the purpose of switching to the second controller.

Application/Control Number: 09/707,604 Page 5

Art Unit: 2154

4. The following is an examiner's statement of reasons for allowance: The prior art in record does not teach or suggest a standby control system having all the claimed limitations including transferring data (i.e. the network identifier) of the first controller to the second controller via a cable directly connecting the central processing unit module of the first controller with the central processing unit module of the second controller, thereby bypassing the backplanes of the first and second controllers. Therefore, the present invention teaches an improved standby control system.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron C Perez-Daple whose telephone number is (571) 272-3974. The examiner can normally be reached on 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent
Application Information Retrieval (PAIR) system. Status information for published
applications may be obtained from either Private PAIR or Public PAIR. Status information
for unpublished applications is available through Private PAIR only. For more information

Application/Control Number: 09/707,604

Art Unit: 2154

Page 6

about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aaron Perez-Daple

TEACH PLOGY CENTER 2100